

AMENDMENTS TO THE CLAIMS

Claims 1-10 (canceled)

Claim 11 (new) A power-delivery circuit for delivering a combined power and data signal, the power delivery circuit comprising:

a power-input port receiving a power supply signal;

a data-input port receiving a data signal;

a mixer circuit combining the power supply signal and the data signal to generate the combined power and data signal;

a data/power-output port communicating the combined power and data signal over a network data cable;

a data/power-input port receiving the combined power and data signal via the network cable; and

an indicator circuit providing an indication when the circuit is providing the combined power and data signal.

Claim 12 (new) The power delivery circuit of claim 11, wherein the indicator circuit comprises a light emitting diode (LED) circuit.

Claim 13 (new) The power delivery circuit of claim 12, wherein the LED circuit is coupled with the power input port such that applying the power supply signal to the power input port energizes the LED circuit.

Claim 14 (new) The power delivery circuit of claim 11, further comprising a high-frequency suppression circuit reducing electromagnetic interference from the combined power and data signal with a network device, the network device being coupled with the power delivery circuit.

Claim 15 (new) The power delivery circuit of claim 14, wherein the high-frequency suppression circuit comprises one or more common-mode chokes coupled between the power-input and data-input ports and the network device.

Claim 16 (new) The power delivery circuit of claim 15, wherein the one or more common-mode chokes each comprises a transformer coupled serially between the data/power-input port and the network device.

Claim 17 (new) The power delivery circuit of claim 11, further comprising a power regulation circuit coupled with the data/power-input port and the network device, the power regulation circuit controlling a power supply voltage applied to a network device.

Claim 18 (new) A power-delivery circuit for delivering a combined power and data signal to a network device, the power delivery circuit comprising:

a power-input port receiving a power supply signal;

a data-input port receiving a data signal;

a mixer circuit combining the power supply signal and the data signal to generate the

combined power and data signal;

a data/power-output port communicating the combined power and data signal to the network device over a network data cable;

a data/power-input port receiving the combined power and data signal via the network cable;

a filter circuit separating the data signal from the combined power and data signal; and

a high-frequency suppression circuit reducing electromagnetic interference from the combined power and data signal with the network device.

Claim 19 (new) The power delivery circuit of claim 18, wherein the high-frequency suppression circuit comprises a series impedance.

Claim 20 (new) The power delivery circuit of claim 18, wherein the high-frequency suppression circuit comprises one or more common-mode chokes coupled between the data/power-input port and the network device.

Claim 21 (new) The power delivery circuit of claim 20, wherein the one or more common-mode chokes each comprises a serially coupled transformer.

Claim 22 (new) A power-delivery circuit for delivering a combined power and data signal to a network device, the power delivery circuit comprising:

a power-input port receiving a power supply signal;

a data-input port receiving a data signal;

a mixer circuit combining the power supply signal and the data signal to generate the combined power and data signal;

a data/power-output port communicating the combined power and data signal over a network data cable;

a data/power-input port receiving the combined power and data signal via the network cable;

a filter circuit coupled with the data/power-input port and the network device, the filter circuit separating the data signal from the combined power and data signal; and

a power regulation circuit coupled with the data/power-input port and the network device, the power regulation circuit controlling a power supply voltage applied to the network device.

Claim 23 (new) The power delivery circuit of claim 22, wherein the power regulation circuit comprises a center-tapped inductor.

Claim 24 (new) The power delivery circuit of claim 22, wherein the power regulation circuit comprises a linear regulator.

Claim 25 (new) The power delivery circuit of claim 22, wherein the power regulation circuit comprises a direct-current to direct-current voltage converter.

Claim 26 (new) The power delivery circuit of claim 22, wherein the power supply signal is a direct-current signal.

Claim 27 (new) The power delivery circuit of claim 22, wherein the power supply signal is an alternating current signal and the power delivery circuit further comprises an alternating current-to-direct current converter coupled with the data/power-input port and the network device.